





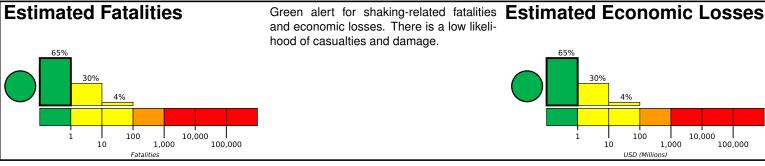
PAGER Version 4

Created: 1 day, 0 hours after earthquake

M 4.7, 20 km E of Petrolia, CA

Origin Time: 2023-10-16 10:20:49 UTC (Mon 03:20:49 local) Location: 40.3972° N 123.7792° W Depth: 10.0 km

Estimated Fatalities 10,000 100,000 1,000



Estimated Population Exposed to Earthquake Shaking

ESTIMATED POPULATION EXPOSURE (k=x1000)		1,123k*	718k	36k	0	0	0	0	0	0
ESTIMATED MODIFIED MERCALLI INTENSITY		I	11-111	IV	V	VI	VII	VIII	IX	X+
PERCEIVED SHAKING		Not felt	Weak	Light	Moderate	Strong	Very Strong	Severe	Violent	Extreme
POTENTIAL DAMAGE	Resistant Structures	None	None	None	V. Light	Light	Moderate	Mod./Heavy	Heavy	V. Heavy
	Vulnerable Structures	None	None	None	Light	Moderate	Mod./Heavy	Heavy	V. Heavy	V. Heavy

^{*}Estimated exposure only includes population within the map area.

Population Exposure

population per 1 sq. km from Landscan

125.0°W Brookings 123.5 escent Cit Weed Dunsmuir Eureka 40.8°N Red ling Red Bluff Redway Covelo 39.6°N Fort Bragg

PAGER content is automatically generated, and only considers losses due to structural damage. Limitations of input data, shaking estimates, and loss models may add uncertainty.

Structures

Overall, the population in this region resides in structures that are resistant to earthquake shaking, though vulnerable structures exist. The predominant vulnerable building types are unreinforced brick masonry and reinforced masonry construction.

Historical Earthquakes

Date	Dist.	Mag.	Max	Shaking
(UTC)	(km)		MMI(#)	Deaths
1993-09-21	258	6.0	VI(47k)	1
1989-08-08	396	5.4	VII(4k)	1
1980-01-24	347	5.8	VII(35k)	1

Recent earthquakes in this area have caused secondary hazards such as landslides and liquefaction that might have contributed to losses.

Selected City Exposure

from GeoNames.org MMI City Population I۷ Redway IV Ferndale 1k IV **Fortuna** 12k IV Hydesville 1k IV Rio Dell 3k **Eureka** IV 27k Ш Redding 90k Chico 86k Yuba City 65k Sacramento 466k

bold cities appear on map.

Arden-Arcade

(k = x1000)

92k

Event ID: nc73947830